

# PATENT ABSTRACTS OF JAPAN

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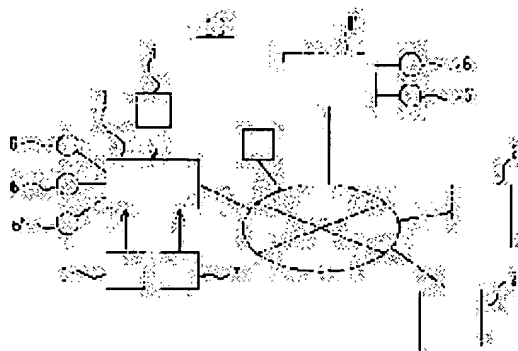
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## (54) SYSTEM FOR RETRIEVING AND DISTRIBUTING MUSIC INFORMATION

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a music information retrieval system capable of easily retrieving music information requested by an orderer from a song sung by the orderer or voice information played on a suitable instrument, without taking the trouble to investigate the names of the music and artist or the like in the case of desiring to retrieve certain music information.

**SOLUTION:** A music information retrieval system, wherein a music information retrieval providing part 1 having a function of retrieving music information and providing the result is connected with a user terminal 2 via a prescribed communication line 3 so as to bi-directionally communicate with each other, and wherein the music information retrieval providing part 1 has music information retrieval software and score creating software 5, also a database 6 in which plural music information, plural kinds of retrieval items prescribed about each of the music information, and further score information corresponding to each music information are all stored, and an accounting system 7, and wherein the user terminal 2 used by the user is provided with a microphone 23 in addition to a prescribed keyboard 21 and a mouse 22.



## LEGAL STATUS

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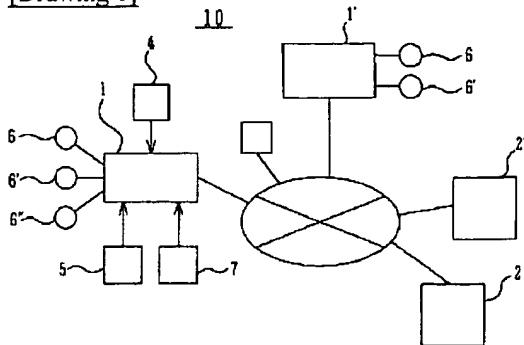
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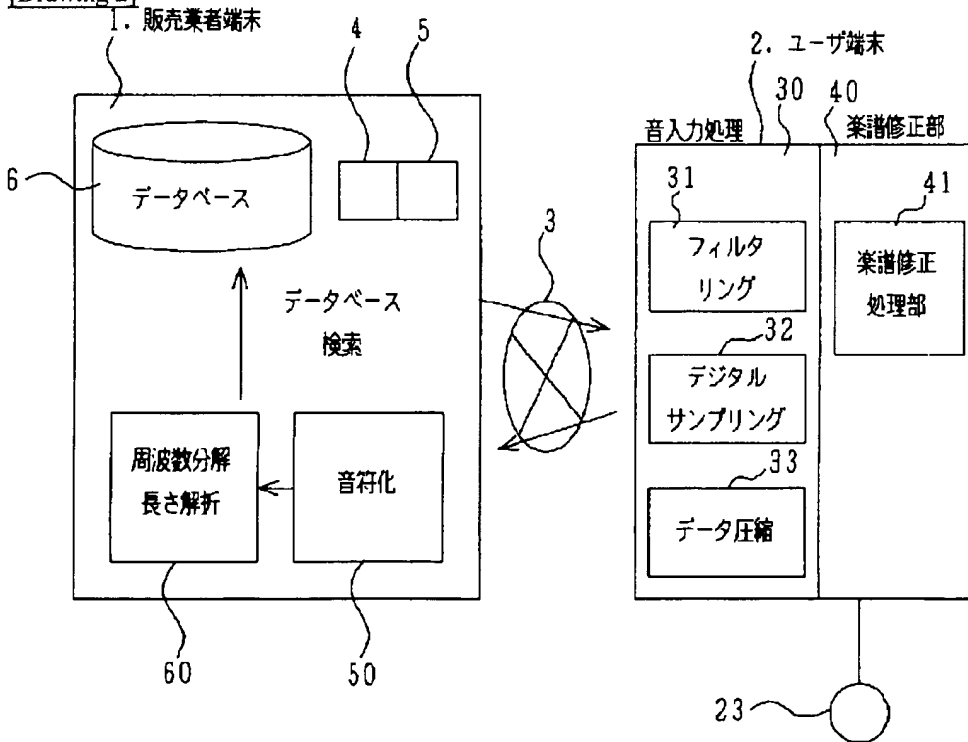
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DRAWINGS

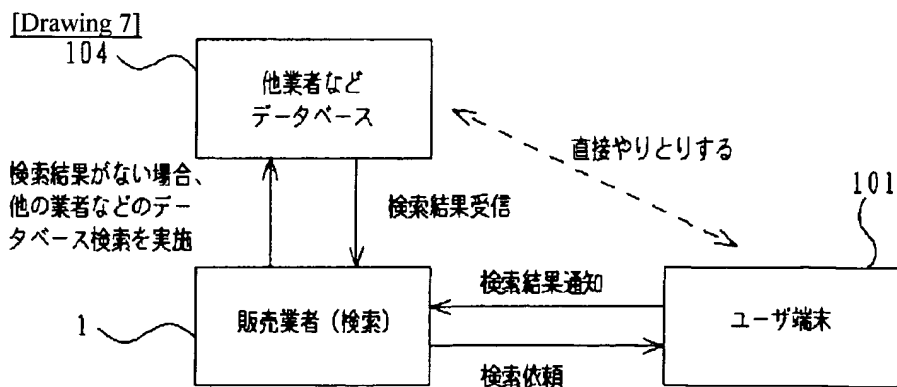
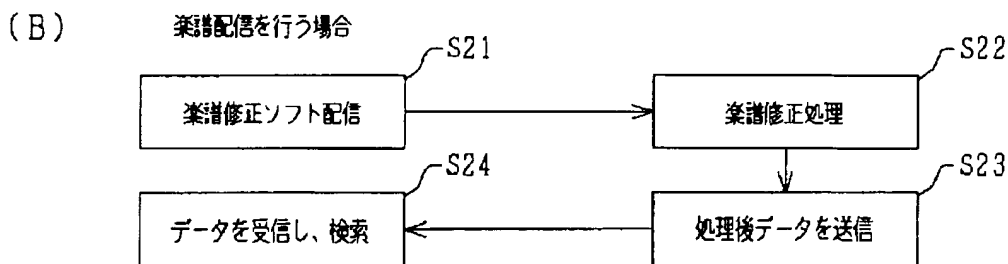
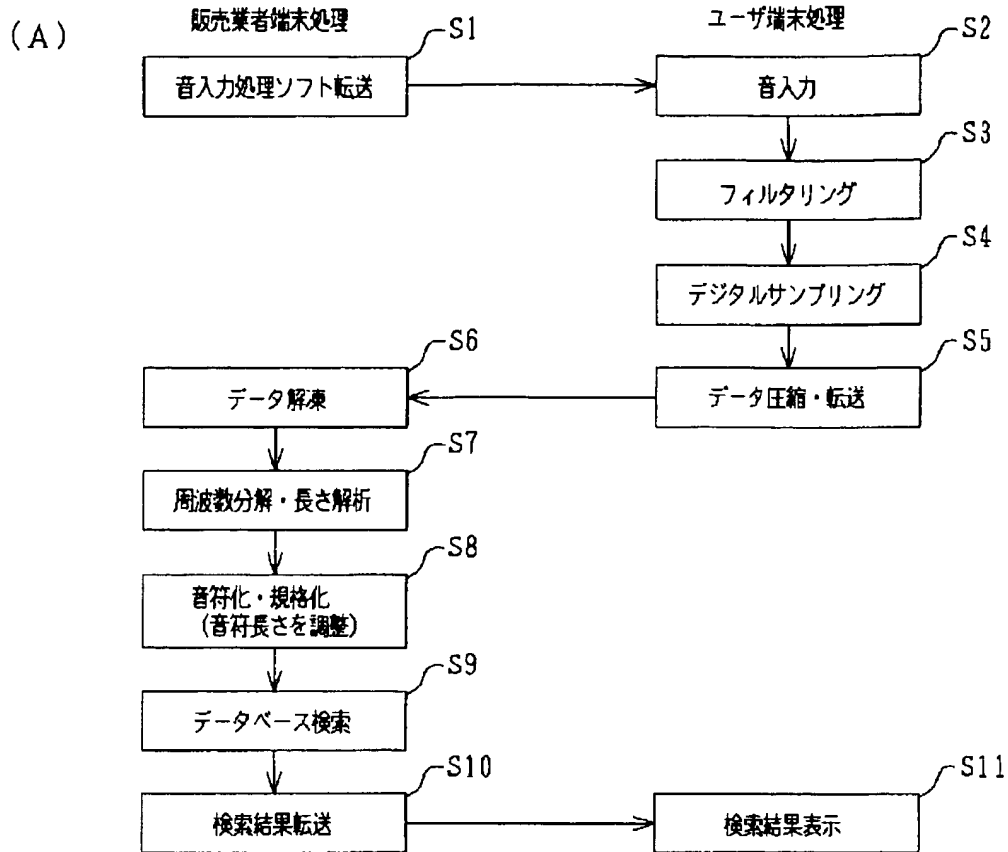
[Drawing 1]



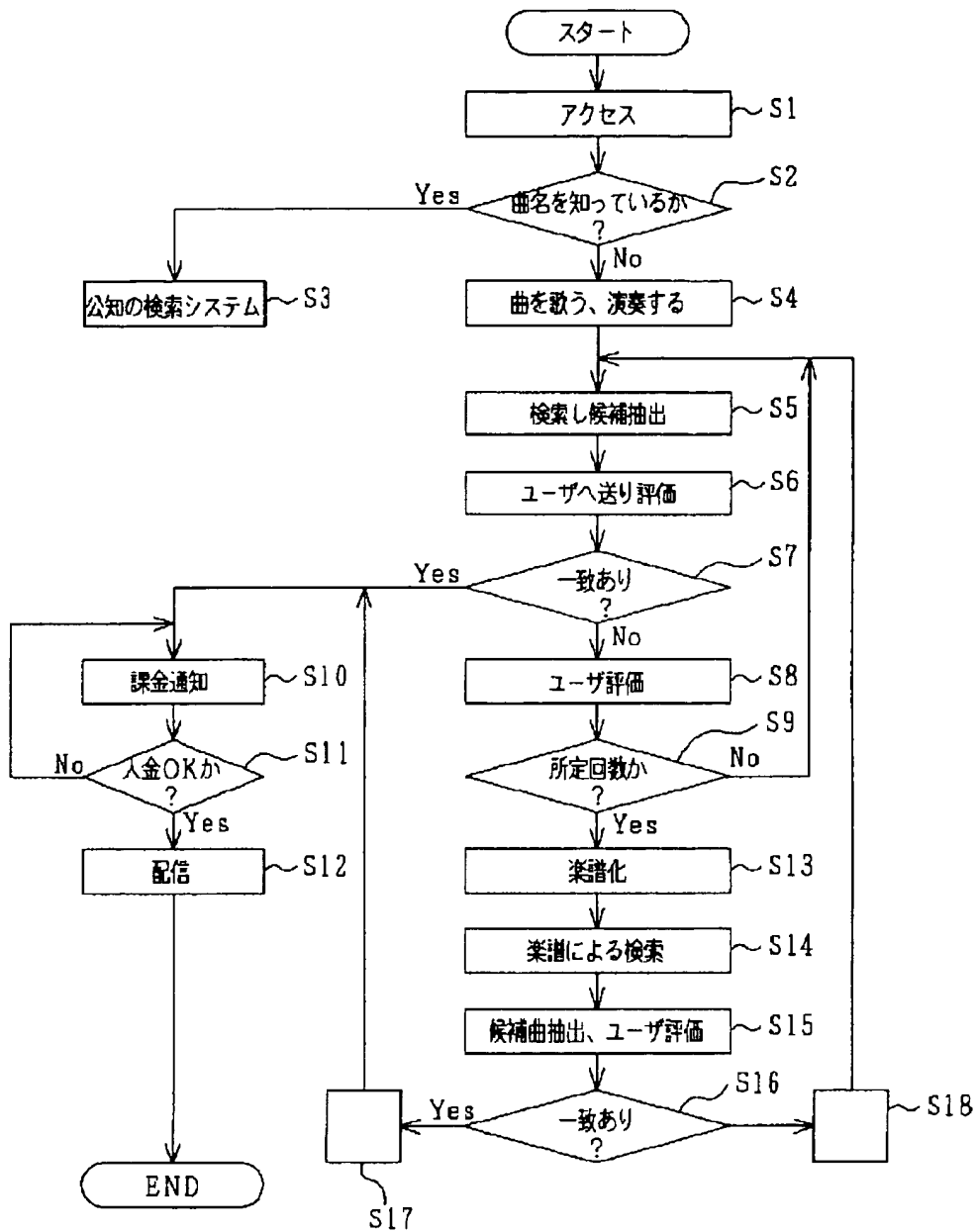
[Drawing 2]



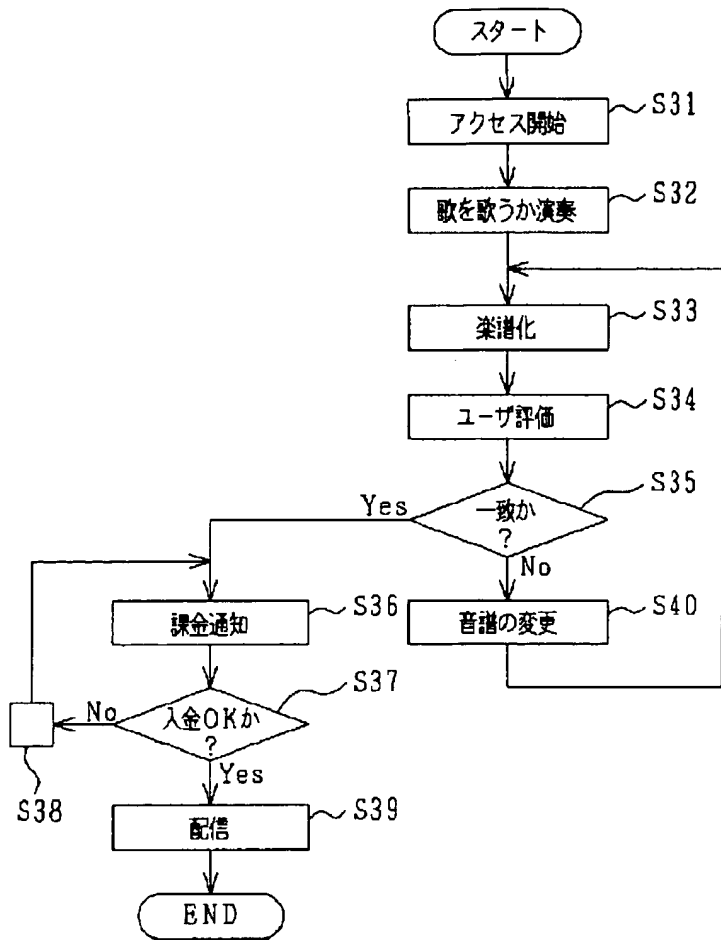
[Drawing 3]



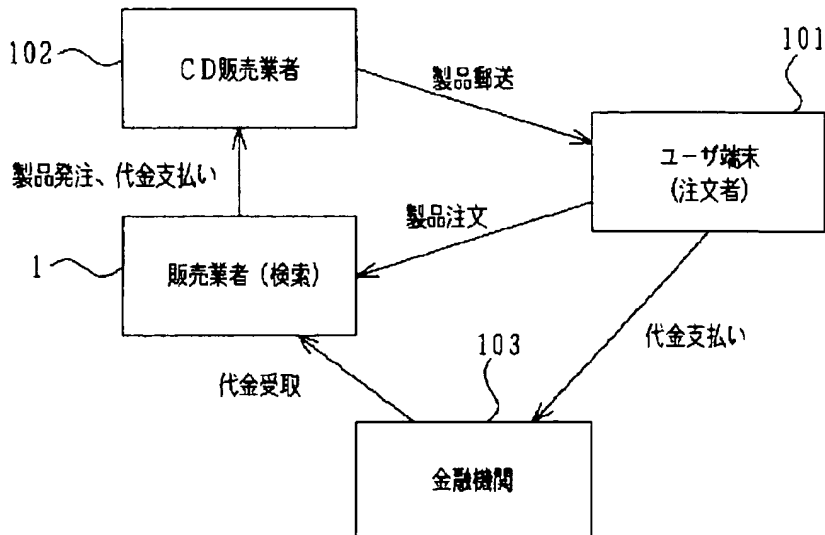
[Drawing 4]



[Drawing 5]



[Drawing 6]



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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] Drawing 1 is a block diagram which shows the outline of the composition of one example of the music information retrieval system by this invention.

[Drawing 2] Drawing 2 is important section explanatory drawing in the music information retrieval system by this invention.

[Drawing 3] Drawing 3 is a block diagram which shows the outline of the composition of one example of the music information processing method of the music information retrieval system by this invention.

[Drawing 4] Drawing 4 is a flow chart explaining the operating procedure of one example of the music information retrieval system by this invention.

[Drawing 5] Drawing 5 is a flow chart explaining the operating procedure of one example of the score creation system by this invention.

[Drawing 6] Drawing 6 is a block diagram explaining an example of the accounting system in the music information retrieval system by this invention.

[Drawing 7] Drawing 7 is a block diagram which shows the example of composition of other examples in the music information retrieval system by this invention.

[Description of Notations]

- 1 -- Music information retrieval offer section
- 2 -- User terminal
- 3 -- A communication line, the Internet
- 4 -- Music information retrieval software
- 5 -- Score creation software
- 6 -- Database
- 7 -- Accounting system
- 8 -- CPU, central operation control means
- 9 -- Broker
- 10 -- Music information retrieval system

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**DETAILED DESCRIPTION**

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**[Detailed Description of the Invention]**

[The technical field to which invention belongs] A user searches the music information on desired through a communication line, and about the music information retrieval system to which I have the music information on desired distributed, this invention relates to distribution or the distribution method of the music information retrieval system constituted so that the music information on desired could be searched, and the music information concerned, even when the user concerned does not know the feature reference matter about the music information concerned especially.

[Description of the Prior Art] When reference of a product to order from an orderer through a network or communication line networks, such as the Internet, especially from before is requested Organisms, such as a reference execution company and a reference execution company section, search a predetermined product outside using a certain reference SHI product retrieval system, or self owns, respectively. Perform selection, and when the thing applicable to the order product of the orderer concerned is found, the product information is extracted. The orderer concerned is asked for a check, the orderer concerned evaluates the extracted product information concerned, and when it is able to be checked that it is in agreement with the product which the orderer concerned ordered, the retrieval system of the product constituted so that the orderer concerned might place an order for the product concerned formally, and the sales method of the product concerned are already known. When it was assumed here that they are CD which recorded music information, for example, predetermined music, for the product concerned, a laser disc (registered trademark), MD, video, a tape, or a score showing predetermined music, in the conventional music information retrieval system concerned, it was the requisite that the orderer knows a part of music name or artist name. That is, the music name which an orderer wants to know was extracted and displayed by searching the content of the music information relevant to it using the music information retrieval system concerned by inputting two or more sorts of data for at least one data about the characteristic reference matter equivalent to the keyword which shows the feature of each music information, such as the above-mentioned music name or an artist name, desirably. Moreover, when the product containing music, for example, a compact disk etc., was ordered as music information, there was also a problem referred to as that an orderer cannot check whether it is music needed at the time of an order.

[Problem(s) to be Solved by the Invention] In the above-mentioned conventional music information retrieval system, although the melody of the music of the acquisition hope concerned can be sung when it is thought that the music which was flowing somehow in the town is remembered, and an orderer, for example, wants to purchase CD of the music or for a score to come to hand, a music name or an artist name may not be known at all. Then, in the conventional music information retrieval system, the music name and the artist name needed to be investigated beforehand. Furthermore, the system concerned searched in the music information retrieval system concerned in the former, and since the product was ordered [ whether whether it is in agreement with the music which the orderer concerned is looking for suits and ] on an orderer's responsibility even when unknown, the extracted specific music information also had the fault said that returned goods do not hear even if the music information is wrong. therefore, the purpose of this invention improving the fault of the conventional technology described the top and searching predetermined music information the song which the orderer concerned sings, without the orderer concerned investigating purposely the music name about the music information concerned, an artist name, etc. -- or The music information which the orderer concerned is searching for from the speech information made to perform using a proper musical instrument etc., It is what offers the music information retrieval system which can search easily the tape which is recording predetermined music, a record, CD and MD, a laser disc, a score, etc. for example, further The music information retrieval system concerned searches and the extracted specific music information by having made it possible to check beforehand whether it is in agreement with the music which the orderer concerned is looking for The music information retrieval system and the music information distribution / distribution method it enabled it to order after the orderer confirmed whether it was a product actually needed are offered.

[Means for Solving the Problem] this invention adopts fundamental technical composition as shown below in order to attain the above-mentioned purpose. Namely, the music information retrieval offer section and the user terminal which have the function for the 1st mode in this invention to search music information, and to offer the result are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal concerned, the music information retrieval offer section concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication

line concerned, When the user concerned cannot carry out the selection input of the feature reference matter concerned about the music information concerned defined beforehand in the music information retrieval system constituted so that it might distribute, or when only sufficient number for reference cannot carry out the selection input of the feature reference matter concerned defined beforehand The user concerned inputs the speech information about a part of music information [ at least ] concerned from the user terminal concerned. The music information retrieval offer section concerned searches the music information for which the user concerned wishes based on the speech information concerned. They are the same as that of the music information the user concerned expects acquisition, or the music information retrieval system constituted so that the music information approximated to it may be offered through a communication line. Moreover, the score creation section and the user terminal which have the score creation software which creates a score automatically as the 2nd mode concerning this invention are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user inputs the music which the user concerned wants to compose from the user terminal concerned as speech information, it is the score creation system constituted so that the score attached to the music which the user concerned wants to compose himself might be able to receive through the communication line concerned. Furthermore, the music information retrieval offer section and the user terminal which have the function to search music information and to offer the result as the 3rd mode concerning this invention are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal concerned, the music information retrieval offer section concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication line concerned, The 1st process to which the user concerned accesses the music information retrieval software concerned in the music information retrieval system constituted so that it might distribute, The 2nd process which judges whether the user concerned knows the feature reference matter about the music information on acquisition hope defined beforehand, When the user concerned knows the feature reference matter about the music information on acquisition hope From a predetermined database, based on the feature reference matter concerned in which it was inputted by the user concerned The 3rd process which performs reference operation conventionally using well-known music information retrieval system, When the user concerned does not know the feature reference matter about the music information on acquisition hope defined beforehand in the 2nd process concerned, or when a number required for reference of feature reference matters are not known The user concerned sings a part of music information concerned himself, or a part of music information concerned is performed using a proper musical instrument. In the 4th process which returns the speech information to the music information retrieval offer section concerned through the user terminal concerned, and the music information retrieval offer section concerned Based on the speech information concerned, from a predetermined database [ whether it is in agreement with the music information the user concerned expects acquisition, and ] The music information approximated to it One or the 5th process which searches more than one and creates a candidate music information list, The 6th process which transmits the candidate music information list concerned to the user concerned, and asks the user concerned for evaluation, The 7th process which judges whether the music information to which the user of the concerned user concerned corresponds with the music information which wishes to receive at the candidate music information list concerned exists, When the music information which is [ in / the 7th process ] in agreement does not exist After the user concerned performs predetermined evaluation to each candidate music information on the candidate music information list concerned, respectively The 8th process which repeats the 7th process the required number of times from the 5th process which returned to the 5th process and was described above, When the music information which is [ in / the 7th process concerned ] in agreement with the music information the user concerned expects acquisition exists [ whether the 9th process which notifies accounting information to the user concerned, and the balance which is equivalent to the accounting information concerned at the predetermined bank account of the user concerned remain, and ] When the check of the accounting information concerned cannot be taken at the 10th process the user concerned judges it to be whether it remitted or paid in equivalent to the accounting information concerned, and the 10th process concerned [ whether a predetermined bank account receives the amount of money which is equivalent to the accounting information concerned to the user concerned, and ] When it returns to the 9th process through the 11th process for which it presses so that it may remit, and the check of the accounting information concerned is able to be taken at the 9th process concerned When the music information the user concerned finally expects acquisition at the 12th process and the 8th process of distributing or distributing the music information concerned to the user concerned is not detected, the score creation software concerned is used, and it is the user concerned. Based on the 13th process which creates a score from the speech information concerned boiled and depended, and the created score concerned The 14th process at which the music information retrieval offer section concerned performs reference processing again using the music information retrieval software concerned, The 15th process which transmits one or more candidate music information acquired by the reference processing concerned to the user concerned with the score concerned, and asks for evaluation, The 16th process which judges whether the candidate music information score concerned with which the user concerned has been transmitted is the thing of the music information which is in agreement with the music information the user concerned expects acquisition, When the score concerned is the thing of the music information which is in agreement with the music information the user concerned expects acquisition When there is no music information which is in agreement with the 17th process which performs shift processing which shifts to said 9th process, and the music information the user concerned expects acquisition in the candidate music information concerned By the user concerned correcting some [ at least ] scores [ at least / some ] of the candidate score concerned, or the user concerned singing again



himself, or re-performing music using a proper musical instrument It is the music information retrieval method which consists of the 19th process constituted so that the score creation software concerned might be made to create a score, the result might be returned to the music information retrieval offer section concerned and reference processing might be again carried out using the reference means concerned. moreover, in the score creation system by which the score creation section and the user terminal which have the score creation software which creates a score automatically as the 4th mode in this invention are bidirectionally connected possible [ communication ] through the predetermined communication line The 1st process to which the user concerned accesses the score creation system concerned, and the user concerned [ whether from the user terminal concerned, a part or all of music information which the user concerned wants to compose is sung himself, and ] The 2nd process which performs a part or all of the music information concerned using a desired musical instrument, and the speech information concerned are returned to the score creation section concerned, and use the score creation software concerned. The 3rd process which creates a score, and the score created with the score creation software concerned are transmitted to the user concerned. The 4th process evaluated by playing the music which the user concerned inspected the score concerned or was indicated by the score concerned by the user terminal concerned, The 5th process which judges whether the user concerned is in agreement with the music information a user wants to compose the score concerned, In being [ in / the 5th process concerned ] in agreement with the music information a user wants for the user concerned to compose / the score concerned / music and to compose the score concerned The 6th process which notifies the user concerned of accounting information, and the amount of money which is equivalent to the accounting information concerned from the user concerned The 7th process which judges whether it remained in the bank account of the user concerned defined beforehand, or there was any payment, or [ that the process of the octavus which the user concerned is reminded of when there are not whether the balance concerned being insufficient and payment, and the balance concerned come out enough ] -- it is -- when there is payment, it is the score creation system which consists of the 9th process which distributes the score concerned to a user through the communication line concerned

[Embodiments of the Invention] the singing voice and the musical instrument by which not only a key input but the orderer sang a part of music for reference himself, for example since technical composition which was described above was used for the music information retrieval system concerned and the score creation system concerning this invention -- a performance -- predetermined music information retrieval is made possible using the information by inputting music information the bottom Moreover, in this invention, after predetermined music information is searched by the music information retrieval system concerned, when an orderer listens to the music which is the music information concerned searched anew, after being able to check whether it is the music which is going to place an order and being able to take the check concerned, an order can be placed formally. Furthermore, in this invention, when the voice which it was going to search and was sung separates, based on the speech information concerned, a score can be created, the score can be displayed on the screen in the terminal of the orderer concerned, and its song can be visually checked by it. Since the note concerned can be moved on the other hand so that there may be sound which thinks differs from the note concerned by which a screen display was carried out when the displayed note concerned senses that it differs from the music information which is the music which the orderer was imagining, it is possible to bring close to the music which an orderer means and to carry out re-reference. Moreover, since-izing of the song which the orderer sang can be carried out [ score ], in the case of original music, music can be score-ized, and can be distributed to it.

[Example] Below, the composition of one example about the music information retrieval system and the score creation system concerning this invention is explained in detail, referring to a drawing. Namely, drawing 1 is a block diagram which shows roughly an example of the composition of the music information retrieval equipment for performing music information retrieval system concerning this invention. The music information retrieval offer section 1 and the user terminal 2 which have the function to search music information and to offer the result are bidirectionally connected possible [ communication ] through the predetermined communication line 3 among drawing. While the music information retrieval offer section 1 concerned has the music information retrieval software and the score creation software 5 which are explained to the following in detail It has the database 6 and accounting System 7 on which the score information corresponding to each music information is also doubled and recorded with two or more sorts of feature reference matters which were attached to each of two or more music information and each music information, and were defined beforehand. Moreover, it is desirable to form the predetermined key baud 21 and the microphone 23 other than a mouse 22 in the user terminal 2 concerned used by the user side. Moreover, eight show among drawing a central operation means, for example, a computer, to have a predetermined program for managing operation of each above-mentioned control unit intensively. The music information retrieval system 10 concerned concerning this invention It is what consists of composition which was described above. fundamental composition When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal 2 concerned, the music information retrieval offer section 1 concerned performs reference processing. When the music information for which the user concerned wishes is searched [ whether the music information concerned is distributed to the user concerned through the communication line 3 concerned, and ] Without minding the communication line concerned, it is the music information retrieval system constituted so that it might distribute, and the target music information concerned contains a record medium and scores, such as video which recorded various kinds of music, a tape, CD and MD, a record, and DVD, in this invention. Moreover, as for the predetermined communication line 3 concerned in this invention, it is desirable to include the Internet other than the usual communication network. Furthermore, the database 6 about the music information concerned which the music information retrieval offer section 1 concerned in this invention holds As opposed to each of the music which it is classified a genre

exception, such as opera, a classic, pop, jazz, the tango, popular music, a race folk song, and a children's song, according to a country, etc., and is the music information concerned for every genre preferably Two or more feature reference matters which consist of sensibility of the music name of the music concerned, a composer, a player, a singer name, and music, a music tone, tempo, an used musical instrument, a hit stage are the things concerned which it is digitized and are recorded as digital data with music information. On the other hand, the music information retrieval software concerned used in this invention It is what uses well-known music information retrieval software as the base fundamental conventionally. From a predetermined database, based on the feature reference matter concerned in which it was inputted by the user concerned Or search more than one and a candidate music information list is created. the music information approximated to it in accordance with the music information the user concerned expects acquisition -- one -- It judges whether after transmitting the candidate music information list concerned to the user concerned, the music information to which the user of the concerned user concerned corresponds with the music information which wishes to receive at the candidate music information list concerned exists. When music information in agreement does not exist, for example, the user concerned performs predetermined evaluation to each candidate music information on the candidate music information list concerned, respectively, returns to the music information retrieval offer section, and repeats reference operation in the music information retrieval offer section concerned. consequently, when the music information which is in agreement with the music information the user concerned expects acquisition exists A user is notified of reference operation costs, the music information costs concerned, and the accounting information that contains a royalty in being required to the user concerned. It judges whether it remitted or paid [ in which the balance equivalent to the accounting information concerned remains in the predetermined bank account of the user concerned, or the user concerned is equivalent to the accounting information concerned ] in. [ whether the balance equivalent to the accounting information concerned remains in the predetermined bank account of the user concerned, and ] When the check of the predetermined bank account having received the amount of money in which the user concerned is equivalent to the accounting information concerned, or having remitted is able to be taken, it is constituted so that the music information concerned may be distributed or distributed to the user concerned. In this invention, the software which enables reference operation of the music information by speech information which is later mentioned further to the starting conventional music information retrieval system is incorporated. Furthermore, in the music information retrieval system concerned in this invention, score creation software which is mentioned later is incorporated, and while a user compares the created score with the music which is music information, it is constituted so that it may be possible to search the music information a user expects acquisition. In addition, in this invention, two or more music information retrieval offer sections 1 concerned may be installed, therefore a user can also be simultaneously accessed to two or more music information retrieval offer sections 1 concerned currently distributed globally while he can choose arbitrarily which the music information retrieval offer section 1 and can do an accelerator. By the method of starting, it also becomes possible to extend globally the reference range of the music information the user concerned expects acquisition. On the other hand in this invention, the agency section 9 which has the agency function connected to the communication line 3 concerned separately [ the music information retrieval offer section 1 concerned ] while two or more music information retrieval offer sections 1 concerned are installed is formed, and the user concerned is the YU concerned. It is also possible to request from two or more music information retrieval offer sections 1 concerned the reference of music information whose user concerned access the agency section 9 concerned through - ZA terminal, and wishes to receive through the agency section 9 concerned. Next, it attaches and explains to the operating instruction of the music information retrieval system concerned concerning this invention. That is, the music information retrieval system 10 concerned concerning this invention The music information retrieval offer section 1 and the user terminal 2 which have the function to search music information and to offer the result are bidirectionally connected possible communication ] through the predetermined communication line 3. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal 2 concerned, the music information retrieval offer section 1 concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication line concerned, When the user concerned cannot carry out the selection input of the feature reference matter concerned about the music information concerned defined beforehand in the music information retrieval system 10 constituted so that it might distribute, or when only sufficient number for reference cannot carry out the selection input of the feature reference matter concerned defined beforehand The user concerned inputs the speech information about a part of music information [ at least ] concerned from the user terminal 2 concerned. The music information retrieval offer section 1 concerned is the same as that of the music information with which the music information for which the user concerned wishes is searched based on the speech information concerned and the user concerned expects acquisition, or the music information retrieval system 10 constituted so that the music information approximated to it may be offered through a communication line. In the music information retrieval system 10 concerned in this invention when the user concerned can choose the feature reference matter concerned about the music information concerned which wishes to receive defined beforehand and cannot input it at all The speech information concerned which the user concerned inputs from the user terminal 2 concerned by the case where the selection input of a sufficient number to search the music information concerned of the feature reference matters concerned cannot be carried out [ whether the user concerned sings himself a part of music information concerned the user concerned expects acquisition, and ] A part of music information concerned is performed using a desired musical instrument, and it is constituted so that it may transmit to the music information retrieval offer section 1 concerned through the communication line 3 concerned through the microphone 23 in which the speech information was prepared by the user terminal 2 of the user

concerned. As for the speech information concerned which the user concerned inputs from the user terminal 2 concerned, it is [ in / this invention ] desirable that it is a part for the vibrant tune which a part for some at least 1 vibrant tunes of the music information concerned the user concerned expects acquisition, and plurality follow. The music information retrieval software concerned which the music information retrieval offer section 1 concerned in this invention holds The speech information concerned inputted by the user concerned is answered. out of one or two or more databases concerned Choose one or more at one's own discretion, carry out reference extraction of the music information approximated to it in accordance with the music information concerned the user concerned expects acquisition, and the detected result concerned as candidate music information on music information that this user wishes to receive It is desirable to be constituted so that it may transmit to the user concerned through the communication line concerned. Furthermore, although the music information retrieval software concerned concerning this invention is prepared in the music information retrieval offer section 1 interior concerned, it is possible to also make the user terminal 2 of the user concerned download the music information retrieval software concerned which has the software changed into music, i.e., music, from the speech information concerned by request of the user concerned under the predetermined conditions which were able to be defined beforehand. As starting predetermined conditions, accounting of a charge or a limit of a time, and the used software can consider making it disappear after time progress etc. Moreover, it sets to the music information retrieval software concerned concerning this invention. About each of one or more candidate music information concerned which the music information retrieval offer section 1 concerned acquired to the user concerned, and was transmitted through the communication line concerned It is constituted so that it may permit that the user concerned hears the part through the terminal 2 of the user concerned. therefore, a user One or more candidate music information transmitted from the music information retrieval offer section 1 concerned can be chosen arbitrarily, the contents of the music can be heard, and the music information concerned can judge whether it is in agreement with the music information the user concerned expects acquisition. Furthermore, while performing evaluation of the stage beforehand set to the user concerned in this invention to one or more candidate music information searched with the music information retrieval software concerned Except for the case where the music information with which it is as a result of [ concerned ] evaluation and the user concerned expects acquisition is decided, the evaluation result concerned is returned to the music information retrieval offer section 1 concerned, and the music information retrieval software concerned is used, and referring to the evaluation result concerned, it may be constituted so that reference processing may be performed again. In this case, it is also desirable to perform the reference processing concerned again towards [ so that the evaluation result of the user concerned of the candidate music information concerned may improve ], and to be constituted so that the candidate music information which it is as a result may be again transmitted to the user concerned. Moreover, as for the music information retrieval software concerned concerning this invention, it is desirable that score creation software is included. The score creation software concerned concerning this invention follows the speech information which the user concerned inputted from the terminal of the user concerned. By reference operation based on the speech information concerned in the music information retrieval system [ in / this invention / it is soft and ] concerned which has the function which creates a score automatically When the music information a user expects acquisition is not found Based on the speech information concerned generated by singing himself the music of the music which a user wants to search, or performing it using a suitable musical instrument, the score creation software concerned creates a score. Based on the score concerned created with the score creation software concerned, reference processing is again performed through the music information retrieval software concerned using the predetermined database 6 in the music information retrieval offer section 1 concerned. It is each candidate concerned, looking at [ transmit one or more candidate music information searched by it to the terminal 2 of the user concerned, and ] the score concerned at the same time the user concerned listens to individually each music of one or more candidate music information concerned. It is constituted so that relation with music may be evaluated. It is possible to also make the user terminal 2 of the user concerned download the score creation software concerned by the request of the user concerned under the predetermined conditions which were able to be defined beforehand depending on the case, although the score creation software concerned in this invention is prepared in the music information retrieval offer section 1 concerned. As starting predetermined conditions, accounting of a charge or a limit of a time, and the used software can consider making it disappear after time progress etc. Furthermore, as for the score creation software concerned, it is desirable to be constituted to the score concerned displayed on the screen of the user terminal 2 concerned, so that the user itself may be able to add change operation. As for the music information retrieval software concerned, in the music information retrieval system concerned in this invention, it is also desirable to be constituted so that reference processing may be again performed for the music information a user expects acquisition from the database concerned based on the correction score containing the score which the user concerned changed and the candidate music information may be again transmitted to the user concerned with the score concerned with the score creation software concerned. In this invention, it sets to the music information retrieval system concerned. When the music information the user concerned expects acquisition is decided by the reference result of the music information retrieval software concerned It is what is constituted so that the music information concerned may be distributed to the user concerned through the communication line concerned. Moreover, in case the music information concerned is distributed to the user concerned through the communication line concerned, it is [ in / the music information retrieval system concerned ] desirable to constitute required information using an encryption system proper to the music information concerned, so that bidirectional communication may be performed between the communication lines concerned and between the Internet. in addition, to the music information retrieval system concerned concerned in this invention [ whether the music information retrieval offer section 1 concerned distributes the determined music information concerned to the user concerned through a communication line by preparing accounting System 7, and ] Face distributing without minding the communication line concerned, and a

bank account number is beforehand checked from the user concerned. After recording in the accounting system concerned and receiving a reference request from a user, The costs which reference processing operation takes, and the selling expense of the music information concerned by which a selection decision was made, And the user concerned is notified of the charge information concerned through the communication line concerned at the same time it calculates the amount of accounting which added together the royalty about the music information concerned from the music information retrieval software concerned and makes it record on the accounting system concerned. When there is payment from the user concerned, or when it is able to be checked that the amount of accounting concerned exists in the bank account of the user concerned, after pulling down the amount of accounting concerned from the bank account of the user concerned, it is constituted so that the music information concerned may be distributed or distributed. Drawing 2 is a block diagram which shows more detailed composition with the user terminal 2 concerned mutually connected through the music information retrieval offer section 1 and the Internet 3 concerned in the music information retrieval system concerned in this invention. The music information retrieval software 4 and the score creation software 5 are installed in the music information retrieval offer section 1 concerned like illustration. Moreover, a functional means 60 to perform a functional means 50 to note-ize from the speech information which two or more databases 6 were formed, and also was inputted from the user terminal 2, the frequency analysis concerned of the note-ized speech information, or length analysis is established. On the other hand, in the user terminal 2 concerned, the processing facility means 30 of the speech information concerned and the score modify-feature section 40 which are some of score creation software concerned are formed. As described above, the starting functional meanses 30 and 40 may be installed in the user terminal concerned from the start, are what the user downloaded from the music information retrieval offer section 1 if needed, and there may be. The filtering functional means 31, the digital sampling functional means 32, and the data compression functional means 33 are formed in the processing facility means 30 of the speech information concerned, and the score corrector processing section 41 is further formed in the score modify-feature section 40 concerned. 1 concrete target of the operating procedure of the speech-information-processing method in the music information retrieval system in the above-mentioned this invention is shown in drawing 3 in the form of a flow chart. That is, among drawing, the speech-information-processing software concerned is transmitted to a user terminal 2 from the music information retrieval offer section 1 concerned in a step (S1), and it is performed whether some melodies of music to search with a step (S2) by the user are sung. Then, in a step (S3), filtering operation is performed by the inputted speech information concerned, digital sampling processing of step (S4) \*\*\*\* and the speech information [ FURUTA / speech information ] concerned concerned is carried out, data compression processing of the result is carried out at a step (S5), and it is transmitted to the music information retrieval offer section 1 through the Internet. In the music information retrieval offer section 1 concerned, it is attached to the digital data which thawed the transmitted compressed data (step (S6)), and was subsequently thawed, and the frequency analysis or length analysis of speech information is performed. Then, it progresses to a step (S7), note-izing and standardization (that is, note length is adjusted) are performed, and, subsequently comparison reference processing with a database is performed in a step (S9). Subsequently, in a step (S10), the candidate music information which is the result concerned of being searched is transmitted to a user terminal 2, and the result is displayed on a predetermined user terminal 2 or a predetermined, predetermined display means in a step (S11). On the other hand, the score creation section and the user terminal which have the score creation software which creates a score automatically are bidirectionally connected to the music information retrieval system concerned concerning this invention possible [ communication ] through the predetermined communication line, and when a user inputs the music which the user concerned wants to compose from the user terminal concerned as speech information, it constitutes so that the score attached to the music which the user concerned wants to compose himself may be able to receive through the communication line concerned. It is carried out. As for the speech information concerned which the user concerned inputs from the user terminal concerned, in the score creation software concerned in this invention, it is desirable to be constituted so that it may transmit to the communication line concerned through the microphone in which the user concerned sang himself, or a part of music information concerned was performed using the desired musical instrument, and the speech information was prepared by the user terminal 2 of the user concerned. The score concerned created with the score creation software concerned concerning this invention is transmitted to the terminal of the user concerned through the music information retrieval software concerned, and while the user concerned can check the score concerned by the user terminal concerned, it is also desirable by performing proper selection operation to be constituted so that it may become possible to hear the music information expressed to the score concerned through a voice means. As described above, as for the score creation software concerned transmitted to the user concerned, in the score creation software concerned used by the music information retrieval system concerned in this invention, it is desirable to be constituted so that it may be possible to add change operation to the score concerned displayed on the screen of the user terminal 2 concerned. That is, it is possible to consider the difference with the score concerned and to evaluate again, listening to a part of music of the music information transmitted to the user as a result of the score with which the user concerned is displayed on the user terminal, and the reference operation concerned with an ear with the terminal 2 concerned. When each note of the score currently displayed on the display of the user terminal 2 concerned is specifically constituted so that the note of the music listening is tried simultaneously may be interlocked with, for example, a certain note is performed by music, it becomes possible by constituting so that the color of the note may change to check which note of which score is performed now. And a user is able to create a new score, when a user differs from the music of music information which wishes to receive and the image of the music concerned which it is trying listening changes the kind of note of the score concerned, and a position suitably at the time. As shown in drawing 3 (B), for example, as shown in a step (S21), the score correction soft chisel of the score creation software concerned is distributed to a user's terminal 2 under predetermined conditions. that is, at a

step (S22) While a user tries listening one music of two or more music transmitted as candidate music information in the user terminal 2 concerned It corrects so that the note on the score concerned may be agreed with the image of the user concerned. The changed score information concerned is returned to the music information retrieval offer section 1 concerned in a step (S23). It is based on the changed score information concerned in the music information retrieval offer section 1 after that. A database 6 is newly accessed, reference is performed, and it agrees to the music information a user expects acquisition, or is one or the thing makes more than one candidate music information, and carries out selection extraction and it is made to transmit to a user again about the music information on the near. Moreover, when a user sings the music which is going to write music personally or performs using a musical instrument apart from [ if the score creation software concerned concerning this invention is used ] reference of the above-mentioned music information, the score itself can be completed and it becomes possible for me to have the score concerned distributed through interchange NE@TTO. That is, it becomes the score creation system constituted so that the score concerned may be distributed to the user concerned through the communication line concerned with the score creation software concerned, when the score of the music which the user concerned wishes is decided. In this invention, the music information distribution and the distribution method which used music information retrieval system are realizable by using each above-mentioned process. The score distribution and the distribution method which used the score creation system are realizable by similarly using each above-mentioned process in this invention. Next, the procedure of more concrete operation of the music information retrieval system concerned concerning this invention is explained in detail, referring to drawing 4 . Namely, as shown in drawing 4 , the music information retrieval offer section and the user terminal which have the function to search music information and to offer the result are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal concerned, the music information retrieval offer section concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication line concerned, In the music information retrieval system constituted so that it might distribute, in Step S1, after a start The 1st process to which the user concerned accesses the music information retrieval software concerned is performed, and the 2nd process which judges whether the user concerned knows the feature reference matter about the music information on acquisition hope defined beforehand is performed in Step S2. subsequently, in Step S3, when the user concerned knows the feature reference matter about the music information on acquisition hope From a predetermined database, based on the feature reference matter concerned in which it was inputted by the user concerned The 3rd process which performs reference operation conventionally using well-known music information retrieval system is performed, and it sets to step S4. When the user concerned does not know the feature reference matter about the music information on acquisition hope defined beforehand in the 2nd process concerned, or when a number required for reference of feature reference matters are not known The 4th process which returns the speech information carried out by the user concerned singing a part of music information concerned himself, or performing a part of music information concerned using a proper musical instrument to the music information retrieval offer section concerned through the user terminal concerned is performed. Then, it moves to Step S5 and one or the 5th process which searches more than one and creates a candidate music information list is performed based on the speech information concerned in the music information retrieval offer section concerned in the music information approximated to it from a predetermined database in accordance with the music information the user concerned expects acquisition. \*\*\*\*\* which corresponds with the music information the user concerned expects acquisition of the candidate music information list concerned in Step S7 while the 6th process which transmits the candidate music information list concerned to the user concerned, and asks the user concerned for evaluation in Step S6 in the music information retrieval offer section 1 concerned is performed The 7th process which judges whether news exists or not is performed. subsequently, when music information in agreement does not exist at the 7th process in Step S8 The 8th process to which the user concerned carries out predetermined evaluation to each candidate music information on the candidate music information list concerned, respectively is performed. behind The 9th process which the predetermined number of the evaluation processings concerned was repeated in Step S9, or judges no is performed. The 9th process from the 5th process returned and described above at the 5th process when it was NO A required number-of-times repeat, When the music information which is [ in / the 7th process concerned ] in agreement with the music information the user concerned expects acquisition exists The 10th process which notifies accounting information to the user concerned in Step S10, [ whether the balance equivalent to the accounting information concerned remains in the predetermined bank account of the user concerned in Step S11, and ] The 11th process the user concerned judges it to be whether it remitted or paid in equivalent to the accounting information concerned, In Step S12, when the check of the accounting information concerned cannot be taken at the 11th process concerned In order to urge so that a predetermined bank account may receive the amount of money which is equivalent to the accounting information concerned to the user concerned or it may remit, when it returns to the 10th process and the check of the accounting information concerned is able to be taken at the 11th process concerned, it shifts to Step S12. The 12th process which distributes or distributes the music information concerned to the user concerned is performed, respectively. then, when the music information the user concerned finally expects acquisition at the 9th above-mentioned process is not detected In Step S13, use the score creation software concerned and the 13th process which creates a score from the speech information concerned by the user concerned is performed. While the 14th process at which the music information retrieval offer section concerned performs reference processing again using the music information retrieval software concerned is performed based on the created score concerned in Step S14 In Step S15, the 15th process which

transmits one or more candidate music information acquired by the reference processing concerned to the user concerned with the score concerned, and asks for evaluation is performed. Then, after the 16th process which judges whether the candidate music information score concerned with which it shifted to Step S16, and the user concerned has been transmitted is the thing of the music information which is in agreement with the music information the user concerned expects acquisition was performed, When the score concerned is the thing of the music information which is in agreement with the music information the user concerned expects acquisition in Step S17 The 17th process which performs shift processing which shifts to said 10th process is performed. When there is no music information which is in agreement with the music information the user concerned expects acquisition in the candidate music information concerned on the other hand By the user concerned correcting some [ at least ] scores [ at least / some ] of the candidate score concerned, or the user concerned singing again himself in Step S18, or re-performing music using a proper musical instrument It is constituted so that processing which change is added [ processing ] to the score creation software concerned, and makes new 7s scores create may be performed and the 18th process constituted so that the result might be returned to the music information retrieval offer section 1 concerned and reference processing might be again carried out using the reference means concerned may be performed. Next, an example of the operating procedure of the score creation system concerned concerning this invention is explained in detail, referring to drawing 5 . namely, as shown in drawing 5 , in the score creation system by which the score creation section 1 and the user terminal 2 which have the score creation software which creates a score automatically are bidirectionally connected possible [ communication ] through the predetermined communication line 3 The 1st process to which the user concerned accesses the score creation system concerned is performed in Step S31 after a start. The 2nd process at which the user concerned sings a part or all of music information which the user concerned wants to compose himself to, or performs a part or all of the music information concerned from the user terminal 2 concerned using a desired musical instrument is performed in Step S32. Then, in Step S33, the speech information concerned is returned to the score creation section 1 concerned, and uses the score creation software concerned. After the 3rd process which creates a score is performed, in Step S34 The score created with the score creation software concerned is transmitted to the user concerned, and the 4th process evaluated by playing the music which the user concerned inspected the score concerned or was indicated by the score concerned by the user terminal concerned is performed. Subsequently, the 5th process which judges whether the user concerned is [ in / Step S35 ] in agreement with the music information a user wants to compose the score concerned is performed. In being [ in / the 5th process concerned ] in agreement with the music information a user wants for the user concerned to compose / the score concerned / music and to compose the score concerned After the 6th process which notifies the user concerned of accounting information is performed in Step S36 The 7th process which judges whether the amount of money which is equivalent to the accounting information concerned from the user concerned remained in the bank account of the user concerned defined beforehand, or there was any payment is performed in Step S37. or [ then, / that the balance concerned comes out enough in Step S39 after the 8th process which the user concerned is reminded of is performed, when there are not whether the balance concerned being insufficient and payment in Step S38 ] -- it is -- when there is payment, the 9th process which distributes the score concerned to a user through the communication line concerned is performed Moreover, in the 5th process of the above, when not in agreement with the music information a user wants for the user concerned to compose [ the score concerned ] music and to compose the score concerned, it is [ in / Step S40 ] the score creation system constituted so that the 10th process which a user does change processing of the score concerned, returns the result to the 3rd process, and repeats each process of it shift may be performed. It is attached to the above-mentioned composition of 1 concrete target of accounting System 7 in this invention, and is drawing 6 . If the case where the CD vendor 102 which is the company to which the music information retrieval offer section 1 concerned sells CD now \*\* 3 when it explains illuminating, and sells the CD concerned directly is independently is assumed Supposing CD with which predetermined reference processing is performed by the music information retrieval system concerning the above-mentioned this invention and a user expects acquisition by it is searched If the music information retrieval offer section 1 concerned receives an order from the user terminal (orderer) 101 concerned first, CD charge and a postage will be charged directly by the credit card number input. After that, the order concerned is mediated to the CD vendor 102, and the CD concerned is mailed to an orderer 101 from the CD vendor 102. Moreover, the reference person who is the music information retrieval offer section 1 concerned receives the charge of agency from the CD vendor 102 concerned. Moreover, when score-izing, a suitable charge can be added and charged to retrieval time. Moreover, collection of the charge concerned can be carried out by pulling down from payment by the credit card number input inputted beforehand, the payment by the financial period 103 with the bill mailed later, or the account of the financial period 103. It is also possible to include an ambiguous reference function on the other hand as a reference function of the music information retrieval system concerned in this invention, for example, it is also possible to input a singer, 3 person groups, the music of a male / female singer, or the piano main, etc. as one of the feature reference matters concerned. Furthermore, in performing MIDI sound-source distribution as one of the music information concerned in this invention, when you wish download by MIDI, it will be necessary to intercede to the contractor who is supporting download of the music by MIDI, and an agency margin will be taken in that case. Moreover, since it also becomes possible to use the database 6 of other men of the same trade or the men of the same trade of a foreign country for reference as shown in drawing 7 when the music information corresponding to the database 6 of the music information vendor 1 does not exist as the others in this invention being concrete, shortage of the amount of databases required for reference is suppliable. in this case -- if that is told to a user 101 and it is satisfactory, when the contractor of an agency place is contained, and the charge of agency concerned is a charge -- being concerned -- others -- it is also possible to request reference processing from a contractor after that -- being concerned -- others -- it will communicate directly between the terminals 2 of a vendor 104 and a user On the other hand, when distributing



software including music information, because of the unloading of the terminal of the vendor concerned, the software of the portion which corrects digitization of singing voice or sound, the height of the sound after score-izing, and length is distributed to a user terminal, and it can process by the user terminal. However, since it can be operated by the user terminal after connection of the communication network of a vendor and a user terminal is cut if it remains as it is, when fixed time cutting of the communication network is carried out, it is desirable to have the function to which protection is applied so that the software concerned cannot be used. Moreover, the music information retrieval offer section and the user terminal which have the function to search music information and to offer the result as other modes concerning this invention are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal concerned, the music information retrieval offer section concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication line concerned, The 1st process to which the user concerned accesses the music information retrieval software concerned in the music information retrieval system constituted so that it might distribute, The 2nd process which judges whether the user concerned knows the feature reference matter about the music information on acquisition hope defined beforehand, When the user concerned knows the feature reference matter about the music information on acquisition hope From a predetermined database, based on the feature reference matter concerned in which it was inputted by the user concerned The 3rd process which performs reference operation conventionally using well-known music information retrieval system, When the user concerned does not know the feature reference matter about the music information on acquisition hope defined beforehand in the 2nd process concerned, or when a number required for reference of feature reference matters are not known The user concerned sings a part of music information concerned himself, or a part of music information concerned is performed using a proper musical instrument. In the 4th process which returns the speech information to the music information retrieval offer section concerned through the user terminal concerned, and the music information retrieval offer section concerned Based on the speech information concerned, from a predetermined database [ whether it is in agreement with the music information the user concerned expects acquisition, and ] The music information approximated to it One or the 5th process which searches more than one and creates a candidate music information list, The 6th process which transmits the candidate music information list concerned to the user concerned, and asks the user concerned for evaluation, The 7th process which judges whether the music information to which the user of the concerned user concerned corresponds with the music information which wishes to receive at the candidate music information list concerned exists, When the music information which is [ in / the 7th process ] in agreement does not exist After the user concerned performs predetermined evaluation to each candidate music information on the candidate music information list concerned, respectively It is [ as opposed to / the user concerned / when the music information which is / in / the process of the octavus which repeats the 7th process the required number of times from the 5th process which returned to the 5th process and was described above, and the 7th process concerned ] in agreement with the music information the user concerned expects acquisition exists ] accounting information \*\*\*\*. \*\*\*\*\* -- whether the balance equivalent to the accounting information concerned remains in the predetermined bank account of the 9th process and the user concerned When the check of the accounting information concerned cannot be taken at the 10th process the user concerned judges it to be whether it remitted or paid in equivalent to the accounting information concerned, and the 10th process concerned [ whether a predetermined bank account receives the amount of money which is equivalent to the accounting information concerned to the user concerned, and ] When it returns to the 9th process through the 11th process for which it presses so that it may remit, and the check of the accounting information concerned is able to be taken at the 9th process concerned When the music information the user concerned finally expects acquisition at the 12th process and the process of the octavus of distributing or distributing the music information concerned to the user concerned is not detected The 13th process which uses the score creation software concerned and creates a score from the speech information concerned by the user concerned, The 14th process at which the music information retrieval offer section concerned performs reference processing again based on the created score concerned using the music information retrieval software concerned, The 15th process which transmits one or more candidate music information acquired by the reference processing concerned to the user concerned with the score concerned, and asks for evaluation, The 16th process which judges whether the candidate music information score concerned with which the user concerned has been transmitted is the thing of the music information which is in agreement with the music information the user concerned expects acquisition, When the score concerned is the thing of the music information which is in agreement with the music information the user concerned expects acquisition When there is no music information which is in agreement with the 17th process which performs shift processing which shifts to said 9th process, and the music information the user concerned expects acquisition in the candidate music information concerned By the user concerned correcting some [ at least ] scores [ at least / some ] of the candidate score concerned, or the user concerned singing again himself, or re-performing music using a proper musical instrument Each above-mentioned process which consists of the 19th process constituted so that the score creation software concerned might be made to create a score, the result might be returned to the music information retrieval offer section concerned and reference processing might be again carried out using the reference means concerned It is the record medium which recorded the program for making it perform automatically through a computer. as still more nearly another mode In the score creation system by which the score creation section and the user terminal which have the score creation software which creates a score automatically are bidirectionally connected possible [ communication ] through the predetermined communication line The 1st process to which the user concerned accesses the score creation system concerned, and the user concerned [ whether from

the user terminal concerned, a part or all of music information which the user concerned wants to compose is sung himself, and ] The 2nd process which performs a part or all of the music information concerned using a desired musical instrument, and the speech information concerned are returned to the score creation section concerned, and use the score creation software concerned. The 3rd process which creates a score, and the score created with the score creation software concerned are transmitted to the user concerned. The 4th process evaluated by playing the music which the user concerned inspected the score concerned or was indicated by the score concerned by the user terminal concerned, The 5th process which judges whether the user concerned is in agreement with the music information a user wants to compose the score concerned, In being [ in / the 5th process concerned ] in agreement with the music information a user wants for the user concerned to compose / the score concerned / music and to compose the score concerned The 6th process which notifies the user concerned of accounting information, and the amount of money which is equivalent to the accounting information concerned from the user concerned The 7th process which judges whether it remained in the bank account of the user concerned defined beforehand, or there was any payment, or [ that the process of the octavus which the user concerned is reminded of when there are not whether the balance concerned being insufficient and payment, and the balance concerned come out enough ] -- it is, when there is payment It is the record medium which recorded the program for making a computer perform the 9th process and each above-mentioned process which distribute the score concerned to a user through the communication line concerned. [Effect of the Invention] The music information retrieval system concerned and the music information distribution system concerning this invention searching predetermined music information, since the above-mentioned technical composition [ like ] is adopted the song which the orderer concerned sings, without the orderer concerned investigating purposely the music name about the music information concerned, an artist name, etc. -- or The music information which the orderer concerned is searching for from the speech information made to perform using a proper musical instrument etc., It is what offers the music information retrieval system which can search easily the tape which is recording predetermined music, a record, CD and MD, a laser disc, a score, etc. for example, further The music information retrieval system concerned searches and the extracted specific music information by having made it possible to check beforehand whether it is in agreement with the music which the orderer concerned is looking for The music information retrieval system and the music information distribution / distribution method it enabled it to order after the orderer confirmed whether it was a product actually needed are offered.

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[Translation done.]



**\* NOTICES \***

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1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

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**CLAIMS**

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[Claim(s)]

[Claim 1] The music information retrieval offer section and the user terminal which have the function to search music information and to offer the result are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal concerned, the music information retrieval offer section concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication line concerned, When the user concerned cannot carry out the selection input of the feature reference matter concerned about the music information concerned defined beforehand in the music information retrieval system constituted so that it might distribute, or when only sufficient number for reference cannot carry out the selection input of the feature reference matter concerned defined beforehand The user concerned inputs the speech information about a part of music information [ at least ] concerned from the user terminal concerned. The music information retrieval offer section concerned is the same as that of the music information with which the music information for which the user concerned wishes is searched based on the speech information concerned and the user concerned expects acquisition, or music information retrieval system characterized by being constituted so that the music information approximated to it may be offered through a communication line.

[Claim 2] The music information concerned is music information retrieval system according to claim 1 characterized by including a record medium and scores, such as video which recorded various kinds of music, a tape, CD and MD, a record, and DVD.

[Claim 3] The predetermined communication line concerned is music information retrieval system according to claim 1 or 2 characterized by including the Internet.

[Claim 4] The music information retrieval offer section concerned is the same as that of the music information concerned with which the speech information concerned which the database about the music information concerned and the user concerned input is answered and the user concerned expects acquisition from the database concerned, or music information retrieval system given in the claim 1 or any of 3 they are. [ which is characterized by being what has the music information retrieval software with which the music information judged to resemble it is searched ]

[Claim 5] The feature reference matter concerned is music information retrieval system given in the claim 1 or any of 4 they are. [ which is characterized by being at least one chosen from sensibility of the genre of each music, a music name, a composer, a player, a singer name, and music, a music tone, tempo, the used musical instrument, etc. ]

[Claim 6] when the user concerned can choose the feature reference matter concerned about the music information concerned which wishes to receive and cannot input it at all When the selection input of a sufficient number to search the music information concerned of the feature reference matters concerned cannot be carried out, the speech information concerned which the user concerned inputs from the user terminal concerned [ whether the user concerned sings himself a part of music information concerned the user concerned expects acquisition, and ] Music information retrieval system given in the claim 1 or any of 5 they are. [ which is characterized by being constituted so that it may transmit to the communication line concerned through the microphone in which a part of music information concerned was performed using the desired musical instrument, and the speech information was prepared by the user terminal of the user concerned ]

[Claim 7] The speech information concerned which the user concerned inputs from the user terminal concerned is music information retrieval system according to claim 6 characterized by being a part for the nodulus which a part for a part of at least 1 noduli of the music information concerned the user concerned expects acquisition, and plurality follow.

[Claim 8] The music information retrieval software concerned which the music information retrieval offer section concerned holds The speech information concerned inputted by the user concerned is answered. out of one or two or more databases concerned Choose one or more at one's own discretion, carry out reference extraction of the music information approximated to it in accordance with the music information concerned the user concerned expects acquisition, and the detected result concerned as candidate music information on music information that this user wishes to receive Music information retrieval system given in the claim 1 or any of 7 they are. [ which is characterized by being constituted so that it may transmit to the user concerned through the communication line concerned ]

[Claim 9] The music information retrieval software concerned is music information retrieval system given in the claim 1 or any of 8 they are. [ which is characterized by being constituted so that it can permit that the user concerned asks the user

concerned the part through the terminal of the user concerned about each of one or more candidate music information concerned transmitted through the communication line concerned ]

[Claim 10] While performing evaluation of the stage beforehand set to the user concerned to one or more candidate music information searched with the music information retrieval software concerned The evaluation result concerned is referred to except for the case where the music information with which it is as a result of [ concerned ] evaluation and the user concerned expects acquisition is decided. Music information retrieval system given in the claim 1 or any of 9 they are. [ which is characterized by performing the reference processing concerned again towards the evaluation result of the candidate music information concerned improving, and being constituted so that the candidate music information which it is as a result may be again transmitted to the user concerned ]

[Claim 11] The music information retrieval software concerned is music information retrieval system given in the claim 1 or any of 10 they are. [ which is characterized by including score creation software ]

[Claim 12] The score creation software concerned is music information retrieval system given in the claim 6 or any of 11 they are. [ which is characterized by the user concerned having the function which creates a score automatically according to the speech information inputted from the terminal of the user concerned ]

[Claim 13] When the music information a user expects acquisition is not found by reference operation based on the speech information concerned It is based on the score concerned which the score creation software concerned created the score based on the speech information concerned, and was created with the score creation software concerned. Reference processing is again performed through the music information retrieval software concerned using a predetermined database in the music information retrieval offer section concerned. One or more candidate music information searched by it is transmitted to the terminal of the user concerned. the user concerned Music information retrieval system given in the claim 6 or any of 12 they are. [ which is characterized by being constituted so that relation with each candidate music concerned may be evaluated looking at the score concerned at the same time it listens to individually each music of one or more candidate music information concerned ]

[Claim 14] The score creation software concerned is music information retrieval system given in the claim 6 or any of 13 they are. [ which is characterized by being constituted to the score concerned displayed on the screen of the user terminal concerned so that the user itself may be able to add change operation ]

[Claim 15] The music information retrieval software concerned is music information retrieval system given in the claim 6 or any of 14 they are. [ which is characterized by being constituted so that reference processing may be again performed for the music information a user expects acquisition from the database concerned based on the correction score containing the score which the user concerned changed and the candidate music information may be again transmitted to the user concerned with the score concerned with the score creation software concerned ]

[Claim 16] Music information retrieval system given in the claim 1 or any of 15 they are. [ which is characterized by being constituted so that the music information concerned may be distributed to the user concerned through the communication line concerned by the reference result of the music information retrieval software concerned in the music information retrieval system concerned, when the music information the user concerned expects acquisition is decided ]

[Claim 17] Music information retrieval system given in the claim 1 or any of 16 they are. [ which is characterized by being constituted so that a proper encryption system may be applied to the music information concerned in the music information retrieval system concerned, in case the music information concerned is distributed to the user concerned through the communication line concerned ]

[Claim 18] At least one of the score creation software concerned and the music information retrieval software concerned is music information retrieval system given in the claim 1 or any of 17 they are. [ which is characterized by being constituted so that it can download to the terminal of the user concerned under the conditions defined beforehand ]

[Claim 19] The accounting system is formed in the music information retrieval system concerned. the music information retrieval offer section concerned Face distributing without distributing the determined music information concerned to the user concerned through a communication line, or minding the communication line concerned, and a bank account number is beforehand checked from the user concerned. After recording in the accounting system concerned and receiving a reference request from a user, The costs which reference processing operation takes, and the selling expense of the music information concerned by which a selection decision was made, And the user concerned is notified of the charge information concerned through the communication line concerned at the same time it calculates the amount of accounting which added together the royalty about the music information concerned from the music information retrieval software concerned and makes it record on the accounting system concerned. When there is payment from the user concerned, or when it is able to be checked that the amount of accounting concerned exists in the bank account of the user concerned Music information retrieval system given in the claim 1 or any of 18 they are. [ which is characterized by being constituted so that the music information concerned may be distributed or distributed after pulling down the amount of accounting concerned from the bank account of the user concerned ]

[Claim 20] The score creation system constituted so that the score attached to the music which the user concerned wants to compose himself by inputting the music the score creation section and the user terminal which have the score creation software which creates a score automatically are bidirectionally connected possible [ communication ] through the predetermined communication line, and the user concerned wants to compose a user from the user terminal concerned as speech information might be able to receive through the communication line concerned.

[Claim 21] The speech information concerned which the user concerned inputs from the user terminal concerned is a score

creation system according to claim 20 characterized by being constituted so that it may transmit to the communication line concerned through the microphone in which the user concerned sang himself, or a part of music information concerned was performed using the desired musical instrument, and the speech information was prepared by the user terminal of the user concerned.

[Claim 22] It is the score creation system according to claim 20 or 21 characterized by being constituted so that it may become possible to hear the music information expressed to the score concerned through a voice means by performing proper selection operation, while the score concerned created with the score creation software concerned is transmitted to the terminal of the user concerned through the music information retrieval software concerned and the user concerned can check the score concerned by the user terminal concerned.

[Claim 23] The score creation software concerned transmitted to the user concerned is a score creation system given in the claim 20 or any of 22 they are. [ which is characterized by being constituted so that it may be possible to add change operation to the score concerned displayed on the screen of the user terminal concerned ]

[Claim 24] The predetermined communication line concerned is a score creation system given in the claim 20 or any of 23 they are. [ which is characterized by including the Internet ]

[Claim 25] A score creation system given in the claim 20 or any of 24 they are. [ which is characterized by being constituted so that the score concerned may be distributed to the user concerned through the communication line concerned with the score creation software concerned in the music information retrieval system concerned, when the score of the music which the user concerned wishes is decided ]

[Claim 26] The music information distribution and the distribution method which used the music information retrieval system indicated by any [ a claim 1 or ] of 19 they are.

[Claim 27] The score distribution and the distribution method which used the score creation system indicated by any [ a claim 20 or ] of 25 they are.

[Claim 28] It is music information retrieval system given in the claim 1 or any of 19 two or more music information retrieval offer sections concerned are installed, and they are. [ which is characterized by being constituted so that it may be possible for the user concerned to mind the user terminal concerned and to connect also with the music information retrieval offer section of a gap that it is simultaneous or individually ]

[Claim 29] While two or more music information retrieval offer sections concerned are installed, the agency section which has the agency function connected to the communication line concerned separately from the music information retrieval offer section concerned is prepared. the user concerned Music information retrieval system given in the claim 1 or any of 19 they are. [ which is characterized by being constituted so that it may be possible to connect with the agency section concerned through the user terminal concerned, and being constituted so that the reference request of the user concerned may be transmitted to the music information retrieval offer section concerned from the agency section concerned ]

[Claim 30] The music information retrieval offer section and the user terminal which have the function to search music information and to offer the result are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal concerned, the music information retrieval offer section concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication line concerned, The 1st process to which the user concerned accesses the music information retrieval software concerned in the music information retrieval system constituted so that it might distribute, The 2nd process which judges whether the user concerned knows the feature reference matter about the music information on acquisition hope defined beforehand, When the user concerned knows the feature reference matter about the music information on acquisition hope From a predetermined database, based on the feature reference matter concerned in which it was inputted by the user concerned The 3rd process which performs reference operation conventionally using well-known music information retrieval system, When the user concerned does not know the feature reference matter about the music information on acquisition hope defined beforehand in the 2nd process concerned, or when a number required for reference of feature reference matters are not known The user concerned sings a part of music information concerned himself, or a part of music information concerned is performed using a proper musical instrument. In the 4th process which returns the speech information to the music information retrieval offer section concerned through the user terminal concerned, and the music information retrieval offer section concerned Based on the speech information concerned, from a predetermined database [ whether it is in agreement with the music information the user concerned expects acquisition, and ] The music information approximated to it One or the 5th process which searches more than one and creates a candidate music information list, The 6th process which transmits the candidate music information list concerned to the user concerned, and asks the user concerned for evaluation, The 7th process which judges whether the music information to which the user of the concerned user concerned corresponds with the music information which wishes to receive at the candidate music information list concerned exists, When the music information which is [ in / the 7th process ] in agreement does not exist The process of the octavus that the user concerned performs predetermined reevaluation to each candidate music information on the candidate music information list concerned, respectively, and in being required The 9th process which repeats the 7th process the required number of times from the 5th process which records how many times reevaluation was performed, returned to the 5th process, and was described above, When the music information which is [ in / the 7th process concerned ] in agreement with the music information the user concerned expects acquisition exists [ whether the 10th process which notifies accounting

information to the user concerned, and the balance which is equivalent to the accounting information concerned at the predetermined bank account of the user concerned remain, and ] When the check of the accounting information concerned cannot be taken at the 11th process the user concerned judges it to be whether it remitted or paid in equivalent to the accounting information concerned, and the 11th process concerned [ whether a predetermined bank account receives the amount of money which is equivalent to the accounting information concerned to the user concerned, and ] In order to urge so that it may remit, when it returns to the 10th process and the check of the accounting information concerned is able to be taken at the 11th process concerned Even if passed through reevaluation operation predetermined at the 12th process and the 9th process of distributing or distributing the music information concerned to the user concerned, when the music information the user concerned finally expects acquisition is not detected, the score creation software concerned is used. The 13th process which creates a score from the speech information concerned by the user concerned, The 14th process at which the music information retrieval offer section concerned performs reference processing again based on the created score concerned using the music information retrieval software concerned, The 15th process which transmits one or more candidate music information acquired by the reference processing concerned to the user concerned with the score concerned, and asks for evaluation, The 16th process which judges whether the candidate music information score concerned with which the user concerned has been transmitted is the thing of the music information which is in agreement with the music information the user concerned expects acquisition, When the score concerned is the thing of the music information which is in agreement with the music information the user concerned expects acquisition When there is no music information which is in agreement with the 17th process which performs shift processing which shifts to said 10th process, and the music information the user concerned expects acquisition in the candidate music information concerned By the user concerned correcting some [ at least ] scores [ at least / some ] of the candidate score concerned, or the user concerned singing again himself, or re-performing music using a proper musical instrument The music information retrieval method characterized by consisting of the 18th process constituted so that the score creation software concerned might be made to create a score, the result might be returned to the 5th process concerned and reference processing might be again carried out using the reference means concerned. [Claim 31] The music information retrieval offer section and the user terminal which have the function to search music information and to offer the result are bidirectionally connected possible [ communication ] through the predetermined communication line. When a user does the selection input of two or more sorts of feature reference matters about the music information the user concerned expects acquisition defined beforehand from the user terminal concerned, the music information retrieval offer section concerned performs reference processing. When the music information for which the user concerned wishes is searched The \*\* which distributes the music information concerned to the user concerned through the communication line concerned, or does not mind the communication line concerned, The 1st process to which the user concerned accesses the music information retrieval software concerned in the music information retrieval system constituted so that it might distribute, The 2nd process which judges whether the user concerned knows the feature reference matter about the music information on acquisition hope defined beforehand, When the user concerned knows the feature reference matter about the music information on acquisition hope From a predetermined database, based on the feature reference matter concerned in which it was inputted by the user concerned The 3rd process which performs reference operation conventionally using well-known music information retrieval system, When the user concerned does not know the feature reference matter about the music information on acquisition hope defined beforehand in the 2nd process concerned, or when a number required for reference of feature reference matters are not known The user concerned sings a part of music information concerned himself, or a part of music information concerned is performed using a proper musical instrument. In the 4th process which returns the speech information to the music information retrieval offer section concerned through the user terminal concerned, and the music information retrieval offer section concerned Based on the speech information concerned, from a predetermined database [ whether it is in agreement with the music information the user concerned expects acquisition, and ] The music information approximated to it One or the 5th process which searches more than one and creates a candidate music information list, The 6th process which transmits the candidate music information list concerned to the user concerned, and asks the user concerned for evaluation, The 7th process which judges whether the music information to which the user of the concerned user concerned corresponds with the music information which wishes to receive at the candidate music information list concerned exists, When the music information which is [ in / the 7th process ] in agreement does not exist The process of the octavus that the user concerned performs predetermined reevaluation to each candidate music information on the candidate music information list concerned, respectively, and in being required The 9th process which repeats the 7th process the required number of times from the 5th process which records how many times reevaluation was performed, returned to the 5th process, and was described above, When the music information which is [ in / the 7th process concerned ] in agreement with the music information the user concerned expects acquisition exists [ whether the 10th process which notifies accounting information to the user concerned, and the balance which is equivalent to the accounting information concerned at the predetermined bank account of the user concerned remain, and ] When the check of the accounting information concerned cannot be taken at the 11th process the user concerned judges it to be whether it remitted or paid in equivalent to the accounting information concerned, and the 11th process concerned [ whether a predetermined bank account receives the amount of money which is equivalent to the accounting information concerned to the user concerned, and ] In order to urge so that it may remit, when it returns to the 10th process and the check of the accounting information concerned is able to be taken at the 11th process concerned Even if passed through reevaluation operation predetermined at the 12th process and the 9th process of distributing or distributing the music information concerned to the user concerned, when the music information the user concerned finally expects acquisition is not detected, the score creation software concerned is used. The 13th process

which creates a score from the speech information concerned by the user concerned, The 14th process at which the music information retrieval offer section concerned performs reference processing again based on the created score concerned using the music information retrieval software concerned, The 15th process which transmits one or more candidate music information acquired by the reference processing concerned to the user concerned with the score concerned, and asks for evaluation, The 16th process which judges whether the candidate music information score concerned with which the user concerned has been transmitted is the thing of the music information which is in agreement with the music information the user concerned expects acquisition, When the score concerned is the thing of the music information which is in agreement with the music information the user concerned expects acquisition When there is no music information which is in agreement with the 17th process which performs shift processing which shifts to said 10th process, and the music information the user concerned expects acquisition in the candidate music information concerned By the user concerned correcting some [ at least ] scores [ at least / some ] of the candidate score concerned, or the user concerned singing again himself, or re-performing music using a proper musical instrument The record medium which recorded the program for performing automatically each above-mentioned process which consists of the 18th process constituted so that the score creation software concerned might be made to create a score, the result might be returned to the 5th process concerned and reference processing might be again carried out using the reference means concerned through a computer.

[Claim 32] In the score creation system by which the score creation section and the user terminal which have the score creation software which creates a score automatically are bidirectionally connected possible [ communication ] through the predetermined communication line The 1st process to which the user concerned accesses the score creation system concerned, and the user concerned [ whether from the user terminal concerned, a part or all of music information which the user concerned wants to compose is sung himself, and ] The 2nd process which performs a part or all of the music information concerned using a desired musical instrument, and the speech information concerned are returned to the score creation section concerned, and use the score creation software concerned. The 3rd process which creates a score, and the score created with the score creation software concerned are transmitted to the user concerned. The 4th process evaluated by playing the music which the user concerned inspected the score concerned or was indicated by the score concerned by the user terminal concerned, The 5th process which judges whether the user concerned is in agreement with the music information a user wants to compose the score concerned, In being [ in / the 5th process concerned ] in agreement with the music information a user wants for the user concerned to compose / the score concerned / music and to compose the score concerned The 6th process which notifies the user concerned of accounting information, and the amount of money which is equivalent to the accounting information concerned from the user concerned The 7th process which judges whether it remained in the bank account of the user concerned defined beforehand, or there was any payment, or [ that the process of the octavus which the user concerned is reminded of when there are not whether the balance concerned being insufficient and payment, and the balance concerned come out enough ] -- it is, when there is payment In the 9th process which distributes the score concerned to a user through the communication line concerned, and the 5th process of the above The score creation system which consists of the 10th process which a user does change processing of the score concerned, returns the result to the 3rd process, and repeats each process of it shift when not in agreement with the music information a user wants for the user concerned to compose [ the score concerned ] music and to compose the score concerned.

[Claim 33] In the score creation system by which the score creation section and the user terminal which have the score creation software which creates a score automatically are bidirectionally connected possible [ communication ] through the predetermined communication line The 1st process to which the user concerned accesses the score creation system concerned, and the user concerned [ whether from the user terminal concerned, a part or all of music information which the user concerned wants to compose is sung himself, and ] The 2nd process which performs a part or all of the music information concerned using a desired musical instrument, and the speech information concerned are returned to the score creation section concerned, and use the score creation software concerned. The 3rd process which creates a score, and the score created with the score creation software concerned are transmitted to the user concerned. The 4th process evaluated by playing the music which the user concerned inspected the score concerned or was indicated by the score concerned by the user terminal concerned, The 5th process which judges whether the user concerned is in agreement with the music information a user wants to compose the score concerned, In being [ in / the 5th process concerned ] in agreement with the music information a user wants for the user concerned to compose / the score concerned / music and to compose the score concerned The 6th process which notifies the user concerned of accounting information, and the amount of money which is equivalent to the accounting information concerned from the user concerned The 7th process which judges whether it remained in the bank account of the user concerned defined beforehand, or there was any payment, or [ that the process of the octavus which the user concerned is reminded of when there are not whether the balance concerned being insufficient and payment, and the balance concerned come out enough ] -- it is, when there is payment In the 9th process which distributes the score concerned to a user through the communication line concerned, and the 5th process of the above When not in agreement with the music information a user wants for the user concerned to compose [ the score concerned ] music and to compose the score concerned The record medium which recorded the program for making a computer perform each process which consists of the 10th process which a user does change processing of the score concerned, returns the result to the 3rd process, and repeats each process of it shift.